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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/838,436	04/19/2001	Istvan Cseri	MSFT-0323/167389.1	2254

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EXAMINER
PHAN, TAM T

ART UNIT	PAPER NUMBER
2144	

DATE MAILED: 09/16/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

	Application No.	Applicant(s)
	09/838,436	CSERI ET AL.
Office Action Summary	Examiner	Art Unit
	Tam (Jenny) Phan	2144

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
  after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any
  earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *03 July 2001*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is
closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-38* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-38* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage

      application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date *07/03/2001*.

4)☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ .

5)☐ Notice of Informal Patent Application (PTO-152)

6)☐ Other: _____ .

U.S. Patent and Trademark Office

PTOL-326 (Rev. 1-04)   **Office Action Summary**   Part of Paper No./Mail Date 09142004

DETAILED ACTION

1.   This application has been examined. Claims 1-38 are presented for examination.

Priority

2.   No priority claims have been made.

3.   The effective filing date for the subject matter defined in the pending claims in this

application is 04/19/2001.

Information Disclosure Statement

4.   An initialed and dated copy of Applicant's IDS form 1449, Paper No. 07/03/2001, is

attached to the instant Office action.

Claim Rejections - 35 USC § 102

5.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

6.   Claims 1-38 are rejected under 35 U.S.C. 102(a) as being anticipated by Girardot et al.

(Millau: an Encoding format for efficient representation and exchange of XML over the Web"

Computer Networks 2000), hereinafter referred to as Girardot.

7.   Regarding claims 1-2, Girardot disclosed a method for generating a data stream

according to a binary format of a tag-based description language comprising tokenizing tag

names and tokenizing attribute names into numeric tokens (page 749 column 1, 3.The Millau

compression model paragraphs 1-2; page 751 Table 2, column 1, 4.0 Millau API: specification

and implementation paragraph 1).

8.   Regarding claim 3-4, Girardot disclosed a method wherein said numeric tokens for tag names and attribute names are variable sized (page 750 Table 1).

9.   Regarding claim 5, Girardot disclosed a method wherein said tokenizing of attributes enables values natively stored as binary data types to be inserted into the data stream (page 750 column 1 paragraph 2).

10.   Regarding claim 6, Girardot disclosed a method wherein said tokenizing of tag names includes inserting a name definition construct into the data stream the first time a tag name is encountered for purposes of recreating the tag names by a device that receives the data stream (page 751 4. Millau API: specification and implementation).

11.   Regarding claim 7, Girardot disclosed a method wherein the tag-based description language is extensible markup language (XML) (Title, page 750 column 1 paragraph 2).

12.   Regarding claim 8, Girardot disclosed a method wherein the tokenizing of the tag and attribute names decreases the time elapsed parsing the data stream by a device that receives the data stream, the time being decreased relative to the parsing of a corresponding text-based format of the tag-based description language (page 752 4.2 The Millau binary SAX parser).

13.   Regarding claim 9, Girardot disclosed a method wherein the tokenizing of the tag and attribute names decreases overhead incident to formatting data for representation according to the tag-based description language (page 751 column 1, 4.0 Millau API: specification and implementation paragraphs 1-2).

14.   Regarding claim 10, Girardot disclosed a method wherein the tokenizing of the tag and attribute names decreases the size of the resulting data file formatted according to the tag-based

description language (page 748 column 1 paragraph 2, column 2 paragraph 4; page 751 column

1).

15.   Regarding claim 11, the A computer readable medium bearing computer executable

instructions corresponds directly to the method of claim 1, and thus is rejected using the same

rationale.

16.   Regarding claim 12, Girardot disclosed a computer readable medium bearing computer

executable instructions for carrying out the method of receiving a well-formed document in a

text format of a tag-based description language and converting the document to a binary format

via tokenization of the tag and attribute names into numeric tokens (page 751 column 1).

17.   Regarding claim 13, Girardot disclosed a computer readable medium wherein said

tokenization of attributes enables values natively stored as binary data types to be inserted into

the data stream (page 750 column 1 paragraph 2).

18.   Regarding claim 14, Girardot disclosed a computer readable medium wherein said

tokenization of tag names includes inserting a name definition construct into the data stream the

first time a tag name is encountered for purposes of recreating the tag names by a device that

receives the data stream (page 751 4. Millau API: specification and implementation).

19.   Regarding claim 15, Girardot disclosed a computer readable medium said receiving

includes receiving a document formatted according to a text format of XML (Title, page 750

column 1 paragraph 2, page 751 column 1).

20.   16. A computer readable medium bearing computer executable instructions for carrying

out the method of assembling data into a document according to a binary format by tokenizing

the tag and attribute names into variable sized numeric tokens (page 749 column 1, 3.The Millau compression model paragraphs 1-2; page 751 Table 2 and column 1).

21.   Regarding claim 17, Girardot disclosed a computer readable medium wherein said tokenizing of attributes enables values natively stored as binary data types to be inserted into the data stream (page 750 column 1 paragraph 2).

22.   Regarding claim 18, Girardot disclosed a computer readable medium wherein said tokenizing of tag names includes inserting a name definition construct into the data stream the first time a tag name is encountered for purposes of recreating the tag names by a device that receives the data stream (page 751 4. Millau API: specification and implementation).

23.   Regarding claim 19, Girardot disclosed a computer readable medium said receiving includes receiving a document formatted according to a text format of XML (Title, page 750 column 1 paragraph 2, page 751 column 1).

24.   Regarding claim 20, Girardot disclosed a computer readable medium bearing computer executable instructions for carrying out the method of receiving a document formatted according to a binary format of a tag-based description language and directly parsing the data in the document for use by another element in a computer system (pages 752-753 4.2 The Millau binary SAX parser).

25.   Regarding claim 21, Girardot disclosed a computer readable medium wherein before said parsing, said method includes converting the document to a text format of the tag-based description language (pages 752-753 4.2 The Millau binary SAX parser).

26.   Regarding claim 22, Girardot disclosed a computer readable medium wherein said receiving includes receiving a document formatted according to a binary format of XML (Title, page 750 column 1 paragraph 2, page 751 column 1).

27.   Regarding claim 23, Girardot disclosed a computing device comprising means for receiving a well-formed document in a text format of a tag-based description language; means for converting the document to a binary format via tokenization of the tag and attribute names into variable sized numeric tokens; and means for converting the document back to the text format without a loss of fidelity (page 749 column 1 3. The Millau compression model paragraphs 1-2; page 750 paragraph 2; page 751 column 1; pages 752-753 4.2 The Millau binary SAX parser).

28.   Regarding claim 24, Girardot disclosed a computing device wherein said tokenization of attributes enables values natively stored as binary data types to be inserted into the data stream (page 750 column 1 paragraph 2).

29.   Regarding claim 25, Girardot disclosed a computing device wherein said tokenization of tag names includes inserting a name definition construct into the data stream the first time a tag name is encountered for purposes of recreating the tag names by a device that receives the data stream (page 751 4. Millau API: specification and implementation).

30.   Regarding claim 26, Girardot disclosed a computing device said tag-based description language is XML (Title, page 750 column 1 paragraph 2).

31.   Regarding claim 27, Girardot disclosed in a system in which a transmitting device transmits in a streaming fashion data formatted according to a tag-based description language, a method for generating a data stream according to a binary format of the tag-based description

language, comprising: for each unique tag name, at the first time a tag name of the data is encountered, tokenizing the tag name into a numeric token and transmitting the token and the text associated with the tag name; and at any time subsequent to the first time that the tag name of the data is encountered, transmitting the numeric token without the text (page 748 column 2 paragraph 1; page 749 column 1 3. The Millau compression model paragraphs 1-2; page 750 paragraph 2; page 751 column 1; pages 752-753 4.2 The Millau binary SAX parser).

32.   Regarding claim 28, Girardot disclosed a method further comprising tokenizing attribute names into numeric tokens (page 749 column 1, 3.The Millau compression model paragraphs 1-2; page 751 Table 2).

33.   Regarding claim 29, Girardot disclosed a method wherein said data is transmitted incrementally, and whereby a receiving device parses said data as it is incrementally received by the receiving device (pages 751-752 4.1. The Millau SAX parser).

34.   Regarding claim 30-31, Girardot disclosed a method wherein said numeric tokens for tag names and attribute names are variable sized (page 750 Table 1).

35.   Regarding claim 32, Girardot disclosed a method wherein said tokenizing of attributes enables values natively stored as binary data types to be inserted into the data stream (page 750 column 1 paragraph 2).

36.   Regarding claim 33, Girardot disclosed a method wherein the tag-based description language is extensible markup language (XML) (Title, page 750 column 1 paragraph 2).

37.   Regarding claim 34, Girardot disclosed a method wherein the tokenizing of the tag and attribute names decreases the time elapsed parsing the data stream by a device that receives the

data stream, the time being decreased relative to the parsing of a corresponding text-based format

of the tag-based description language (page 752 4.2 The Millau binary SAX parser).

38.   Regarding claim 35, Girardot disclosed a method wherein the tokenizing of the tag and

attribute names decreases overhead incident to formatting data for representation according to

the tag-based description language (page 748 column 1 paragraph 2, column 2 paragraph 4; page

751 column 1).

39.   Regarding claim 36, Girardot disclosed a method wherein the tokenizing of the tag and

attribute names decreases the size of the resulting data file formatted according to the tag-based

description language (page 748 column 1 paragraph 2, column 2 paragraph 4; page 751 column

1).

40.   Regarding claim 37, the A computer readable medium bearing computer executable

instructions corresponds directly to the method of claim 27, and thus is rejected using the same

rationale.

41.   Regarding claim 38, Girardot disclosed a method for generating a data stream according

to an XML binary format, comprising: tokenizing tag names and attribute names into variable

sized numeric tokens, wherein said tokenizing of attributes enables values natively stored as

binary data types to be inserted into the data stream, wherein said tokenizing of tag names

includes inserting a name definition construct into the data stream the first time a tag name is

encountered for purposes of recreating the tag names by a device that receives the data stream,

thereby decreasing parsing time (page 748 column 2 paragraph 1; page 749 column 1 3. The

Millau compression model paragraphs 1-2; page 750 paragraph 2; page 751; pages 752-753 4.2

The Millau binary SAX parser; pages 754-755 4.6 The Millau code spaces).

42.   Since all the limitations of the claimed invention were disclosed by the combination of

Girardot, claims 1-38 are rejected.

Conclusion

43.   The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

a.   Doutre et al. (U.S. Patent Number 6,470,345) titled "Replacement of Substrings in

File/Directory Pathnames with Numeric Tokens" disclosed a method and system for

replacing substrings in file and directory pathnames with numeric tokens. A name string

to be converted is first read; the current working directory and name string are

canonicalized to form a pathname containing the substrings. The pathname is parsed and

each substring is searched in a string dictionary to locate a corresponding numeric token.

The string dictionary that is created associates token values with substrings, so that there

is a one-to-one correspondence.

b.   Bodin et al. (U.S. Patent Number 6,311,223) titled "Effective transmission of

documents in hypertext markup language (HTML)" disclosed a computer controlled

display systems for displaying web pages including natural language text representative

of data transmitted to display stations from web servers where the data is stored in a

markup language format including tags identifying the contents of said data. The system

provides means for tokenizing the tags prior to the transmission of data from the server to

the display station and then detokenizing said tokenized tags received at the display

station whereby said received data is restored to the markup language format. Then, there

are means associated with the display station for translating said received data from said

markup language format into said displayed natural language text documents. Another

aspect of the invention is directed to portions of the data to be transmitted, identified by

tags, as comments. Means are provided for removing the data portions identified as

comments prior to transmitting said data.

c.   Porter (U.S. Patent Number 6,163,811) titled "Token based source file

compression/decompression and its application" disclosed a software distribution system

using both differencing and compression techniques to distribute source files over a

network. A sending computer maintains sets of source files in base and delta form. The

delta source files contain difference information allowing a new version of a source file

to be constructed, or reconstituted, from a previously reconstituted version. Prior to

transmitting a source file in either base or delta form to a receiving computer, the sending

computer compresses the source file using a dictionary-based compression scheme. The

resulting tokenized source file is stored and then transmitted to the receiving computer

along with versioning control information. The receiving computer stores the tokenized

source file along with the versioning control information. Upon request, the receiving

computer decompresses the tokenized source file(s) and then reconstitutes an updated

version of the source using the versioning control information and received

decompressed source file(s).

44.   Refer to the enclosed PTO-892 for details and complete listing of other pertinent prior art

of record.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Tam (Jenny) Phan whose telephone number is (703) 305-4665 or

(571) 272-3930 (new telephone number after October 2004). The examiner can normally be reached on M-F 9:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Cuchlinski can be reached on 703-308-3873. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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SPE
Art Unit 2144
703-308-3873

tp
September 14, 2004